

#### BUILDING GLOBAL COMMUNICATIONS

#### NOTICE OF EX PARTE

August 17, 2001

Ms. Magalie Roman Salas Secretary Federal Communications Commission 445 12<sup>th</sup> Street, S.W. Washington, DC 20554

Re: <u>WT Docket No. 99-168</u>: Service Rules for the 746-764 and 776-794 MHz Bands and Revisions to Part 27 of the Commission's Rules

Dear Ms. Salas,

In accordance with Section 1.1206 of the Commission's Rules, this letter provides notification of an *ex parte* meeting on Wednesday, August 15, 2001 between representatives of the Private Radio Section (PRS) of the Telecommunications Industry Association's Wireless Communications Division, other members of the wireless industry, public safety organizations, and members of the FCC staff to discuss technical issues associated with the above-captioned proceeding. Please associate this notification in WT Docket No. 99-168. Copies are being sent to the FCC staff members that participated in the meeting.

The purpose of the meeting was to discuss the technical analysis conducted by TIA's PRS (through its sponsored engineering committee TR-8 and associated subcommittees) addressing the risk of interference to 700 MHz public safety systems caused by out-of-band emissions from commercial transmitters operating in the 747-762/777-792 MHz bands. This TIA document was submitted as an appendix to a petition for reconsideration filed by the National Public Safety Telecommunications Council ("NPSTC") asking the FCC to provide 700 MHz public safety systems greater protection from out-of-band emissions than is now provided. The following persons participated in this *ex parte* meeting:

#### **FCC Staff**

Wireless Telecommunications Bureau
William Lane, Chief Technologist
Thomas Navin, Deputy Chief, Policy Division
Stan Wiggins, Attorney, Policy Division
Martin Liebman, Engineer, Policy Division

Office of Engineering and Technology Robert Eckert, Chief, Technical Analysis Branch Harry Wong, Technical Analysis Branch

Protection of Public Safety Systems From 700 MHz CMRS Band Interference, Private Radio Section, Wireless Communications Division, Telecommunications Industry Association, February 20, 2001.

Petition for Reconsideration by The National Public Safety Telecommunications Council, WT Docket No. 99-168, submitted March 7, 2001 (NPSTC Petition).

## **TIA Representatives**

Wayne Leland, Chairman, TIA Private Radio Section

John Oblak, EF Johnson; Chairman, TIA TR-8 Committee, Mobile and Personal Private Radio Standards

Bernie Olson, Motorola; Chairman, TIA TR-8.18 Subcommittee on Wireless Systems Compatibility Dr. Ernest Hofmeister, Tyco Electronics M/A-COM

Joe Bartelme, Comspace Corporation Robert Speidel, Tyco Electronics M/A-COM (via telephone)

John Derr, TIA Staff Derek Khlopin, TIA Staff

Michael Lewis, Wiley Rein & Fielding

# **Service Provider Representative**

David Maples, Nextel

# **Public Safety Representative**

Robert Gurss, Shook Hardy & Bacon (counsel to APCO)

The meeting began with Mr. Robert Gurss, representing APCO and speaking on behalf of NPSTC, affirming that NPSTC fully supports the technical conclusions and recommendations contained in the TIA technical analysis. Mr. Gurss detailed the current membership in NPSTC and described its charter to encourage and facilitate the implementation of the findings and recommendations of the Public Safety Wireless Advisory Committee – a federal advisory committee jointly established by the FCC and the NTIA.

The TIA representatives then attempted to answer the staff's direct questions about the technical underpinnings of submitted technical analysis. TIA supported the numbers contained in the analysis and stated that it was the unanimous opinion of the participating companies that the out-of-band emissions requirements needed to be strengthened to significantly reduce interference to 700 MHz public safety users. TIA noted that its understanding of the relevant interference mechanisms was growing daily due to the relatively large number of interference cases in the 800 MHz band that the industry is now working to resolve. To this end, the TIA representatives called to the FCC's attention the *Best Practices Guide* for a thorough discussion on interference mechanisms now at work in the 800 MHz band, many of which were apparently not considered by the Commission in establishing the technical standards for 700 MHz.<sup>3</sup> Copies of the *Best Practices Guide* were distributed to the staff and it is attached to this letter.

During this meeting, TIA committed to working with the Commission to clarify how TIA's understanding of the interference mechanisms have evolved over the past few years to better explain why protection greater than that adopted in this proceeding is now needed. TIA committed to work on this analysis with the expectation that significant additional input would be filed shortly after the TIA Private Radio Section and TR-8 meetings in October.

Finally, the TIA members noted to the Commission that there is an error in the recommended revision to Section 27.53 of the Rules as submitted in the technical analysis attached to the *NPSTC Petition*. A revised version is attached to this letter and should replace the last page of the TIA report as submitted with the *NPSTC Petition* in its entirety.

Avoiding Interference Between Public Safety Wireless Communications Systems and Commercial Wireless Communications Systems at 800 MHz, A Best Practices Guide, December 2000, available at <a href="http://www.apco911.org/afc/documents/BPG.pdf">http://www.apco911.org/afc/documents/BPG.pdf</a> (Best Practices Guide).

Please call the undersigned should there be any questions with this submission.

Sincerely,

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Telecommunications Industry Association
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cc:
Bob Eckert
Bill Lane
Marty Liebman
Tom Navin
Stan Wiggins
Harry Wong

Enclosures

## Proposed Revision to Section 27.53 of the Commission's Rules

# § 27.53 Emission limits.

\* \* \* \* \*

- (c) For operations in the 747 to 762 MHz band and the 777 to 792 MHz band, the power of all emissions outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed bands(s) of operation, measured in Watts, in accordance with the following:
- (1) On any frequency outside the 747 to 762 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 777 to 792 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies from 794 to 806 MHz, by a factor not less than 110 + 10 log(P)dB in any 6.25 kHz band segment, for base and fixed stations at any location;
- (4) On all frequencies from 764 to 776 MHz, by a factor not less than 91 + 10 log(P)dB in any 6.25 kHz band segment, for mobile and fixed stations at any location;
- (5) On all frequencies between 764-776 MHz and 794-806 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz segment, for mobile and portable stations;
- (6) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (7) Compliance with the provisions of paragraphs (c)(3) and (c)(4) and (c)(5) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

\* \* \* \* \*

Recognizing that external filters may be required to meet these rigorous but necessary requirements, TIA recommends that the FCC add wording permitting their effect to be included in meeting these criteria.